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**Accession Nbr :**

2000-015805 [02]

**Sec. Acc. Non-CPI :**

N2000-012501

**Title :**

Encoding method for borderless clock free two dimensional barcode

**Derwent Classes :**

T04

**Patent Assignee :**

(MATU ) MATSUSHITA ELECTRIC IND CO LTD  
(MATU ) MATSUSHITA DENKI SANGYO KK  
(LOPR/) LOPRESTI D P  
(TOMK/) TOMKINS A  
(ZHOU/) ZHOU J

**Inventor(s) :**

LOPRESTI DP; TOMKINS A; ZHOU J

**Nbr of Patents :**

8

**Nbr of Countries :**

29

**Patent Number :**

EP-962883 A2 19991208 DW2000-02 G06K-019/06 Eng 26p \*  
AP: 1999EP-0304176 19990528  
DSR: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO  
SE SI

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AP: 1999CA-2271523 19990512

✓ CN1245944 A 20000301 DW2000-29 G06K-009/00  
AP: 1999CN-0106896 19990531

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AP: 1999JP-0190855 19990531

US6201901 B1 20010313 DW2001-20 G06K-009/54  
AP: 1998US-0088189 19980601

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FD: Div ex US6201901  
AP: 1998US-0088189 19980601; 2001US-0767406 20010123

US20010007116 A1 20010705 DW2001-39 G06F-013/00  
FD: Div ex US6201901  
AP: 1998US-0088189 19980601; 2001US-0767404 20010123

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FD: Div ex US6201901

AP: 1998US-0088189 19980601; 2001US-0767406 20010123

**Priority Details :**

1998US-0088189 19980601; 2001US-0767406 20010123; 2001US-0767404 20010123

**IPC s :**

G06F-013/00 G06K-009/00 G06K-009/54 G06K-019/06 G06K-001/12 G06K-001/14 G06K-007/00 G06K-007/10 G06K-009/60 G06K-009/62

**Abstract :**

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NOVELTY - The two dimensional bar code contains a number of data bits represented by printed bits that can be colored dots. The data stream is randomized to prevent streams of the same colored dots. A number of keys are available to further randomize the data until it is sufficiently random. Error correcting codes are included in the data. The randomized stream is formed into a two dimensional pattern that does not require a border. The image can be scanned, deskewed and decoded.

USE - Two dimensional bar codes.

ADVANTAGE - Does not require a clocking system and can be deskewed without needing a border

DESCRIPTION OF DRAWING(S) - Two dimensional barcode reading

Locate bar code 70

Identify amount of skew 71

Deskew 74

Find boundaries 75

Decode 76(Dwg.8a/18)

**Manual Codes :**

EPI: T04-A03B1

**Update Basic :**

2000-02

**Update Equivalents :**

2000-20; 2000-29; 2000-32; 2001-20; 2001-38; 2001-39; 2002-53

**Update Equivalents (Monthly) :**

2001-04; 2001-07; 2002-08